



Asylum Avenue & Sigourney Street Intersection Improvements

State Project No. 63-720

November 4, 2021

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City of Hartford DPW

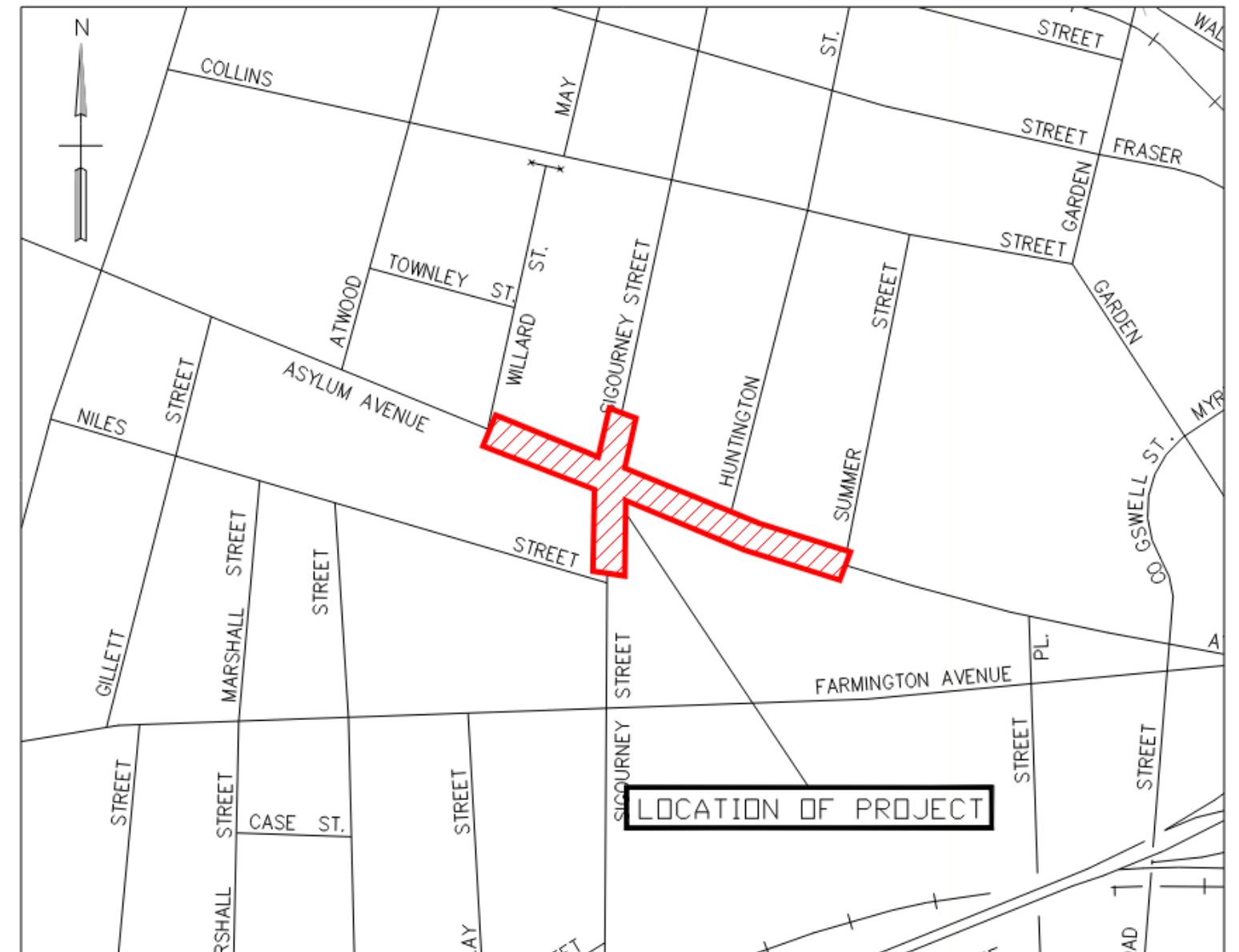


Agenda

- Project Overview
 - Location & Purpose
 - Crash History
 - Existing Conditions
 - Proposed Improvements
 - Traffic Operating Conditions
- Cost Estimate and Funding
- Schedule
- Public Comments and Questions

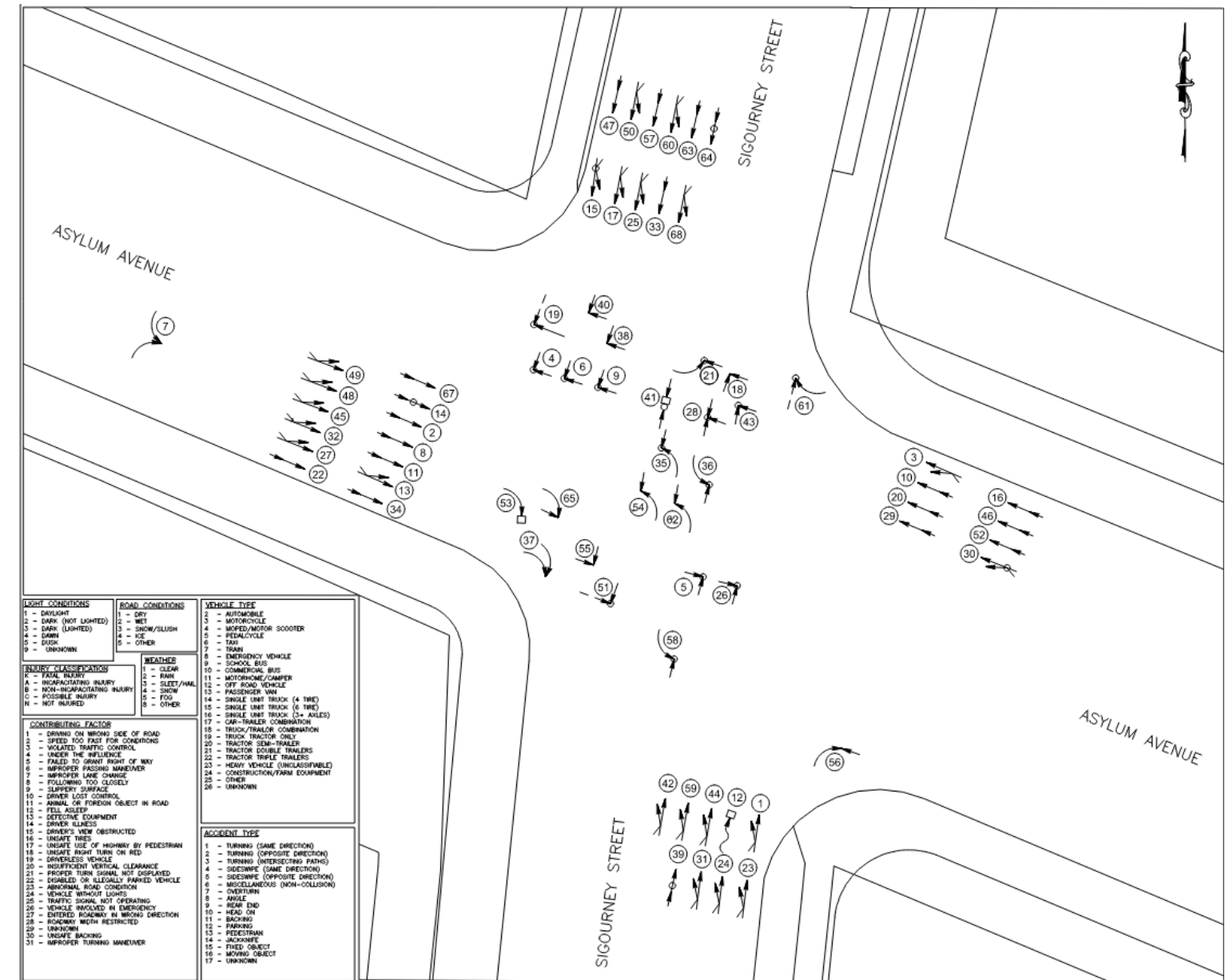
Project Overview

- Project Scope:
 - Intersections Improvements at Asylum Ave. & Sigourney St.
 - Restriping along Asylum Ave. from Willard St. to Summer St.
- Primary purpose: Improve Safety
- Additional goals:
 - Better accommodate pedestrians and bicyclists
 - Modernize antiquated traffic signal equipment



Crash History

- Asylum Ave. at Sigourney St. among top 10 highest crash locations in Hartford
- 71 crashes reported over 3-year period (2018-2020)
- Injuries reported in 19 (27%) of reported crashes
 - Rear-end (34%)
 - Sideswipe (30%)
 - Angle (28%)





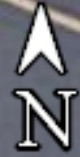
Asylum Avenue

Sigourney Street

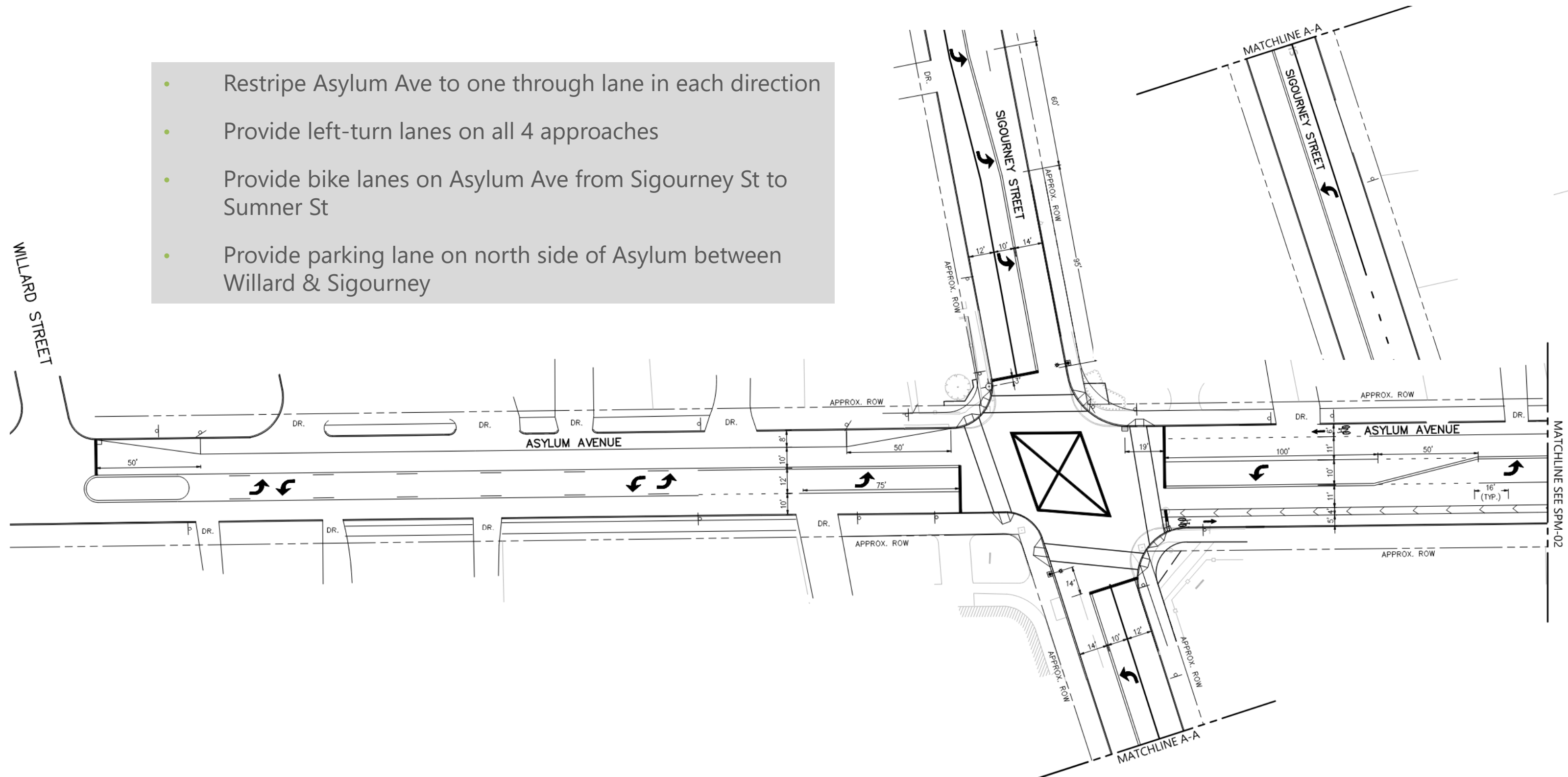
Asylum Avenue

Sigourney Street

Google Earth

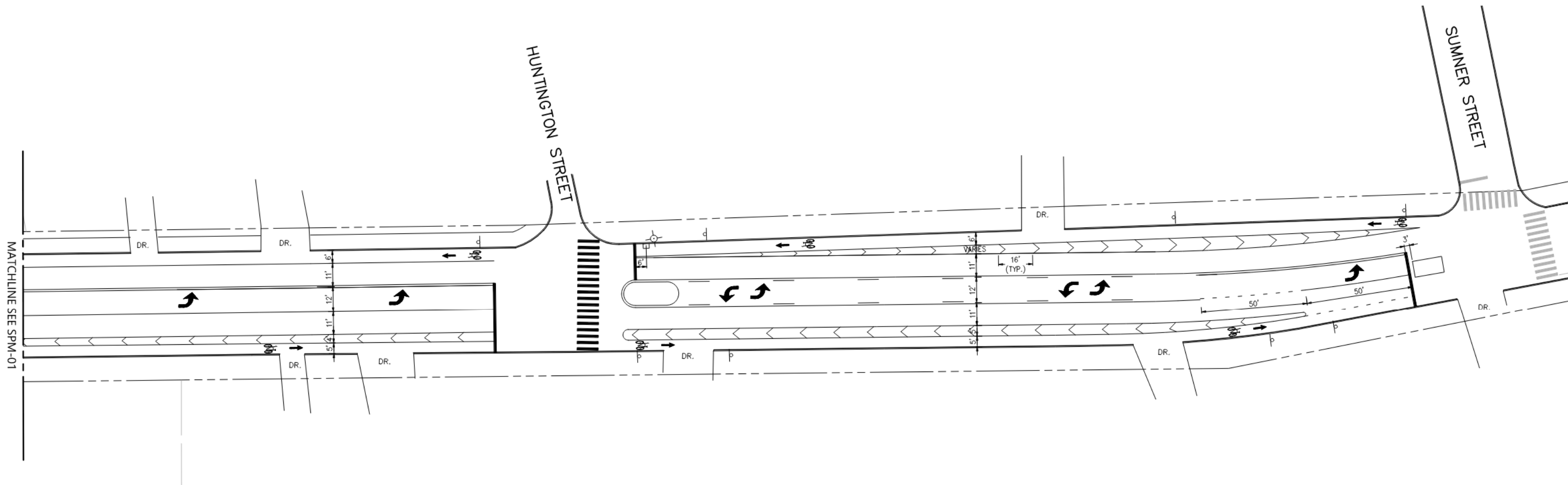


- Restripe Asylum Ave to one through lane in each direction
- Provide left-turn lanes on all 4 approaches
- Provide bike lanes on Asylum Ave from Sigourney St to Sumner St
- Provide parking lane on north side of Asylum between Willard & Sigourney



Asylum Avenue at Sigourney Street Intersection Improvements

City of Hartford



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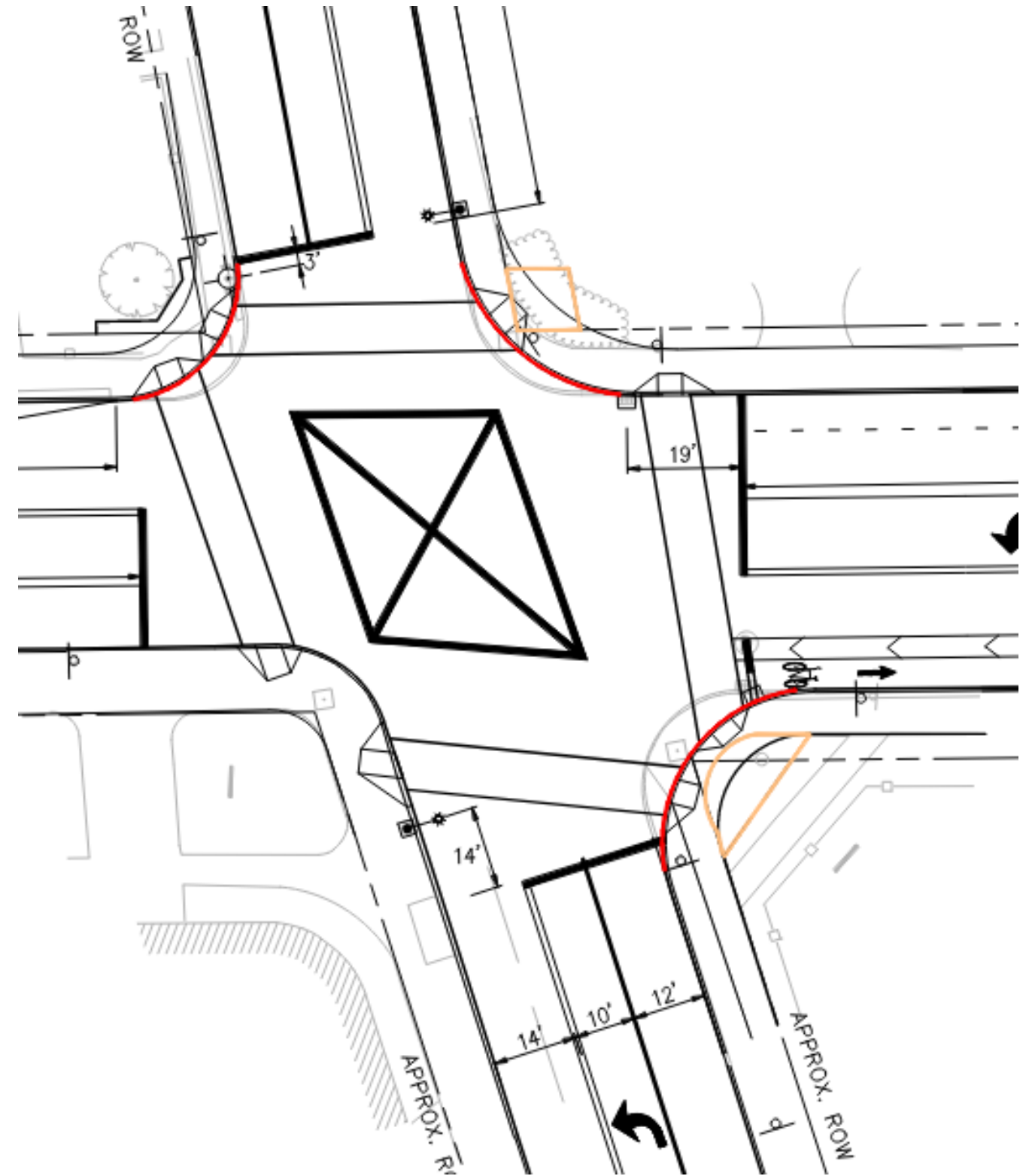
Traffic Signal Improvements

- Existing Conditions:
 - Equipment is antiquated (+30 years old) and has exceeded its anticipated service life
 - Vehicle detection inoperable
 - Smaller 8" signal heads no longer comply with MUTCD standards
 - Inefficient signal timings settings
- Proposed Improvements:
 - Full replacement of traffic signal equipment
 - Install 360-degree cameras for vehicle detection
 - Change to concurrent pedestrian phasing
 - Optimize signal timing settings



Intersection Improvements

- Replace sidewalk ramps to be ADA compliant
- Curb radius improvements
 - NW, NE, and SE corners to accommodate buses
 - Catch basin to be replaced on SE corner
 - Easements required



Rights-of-Way

For any property rights needed...

- The City will be acquiring the necessary rights in accordance with the Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970
- All property owners are entitled to a written offer of just compensation based on the fair market value of the rights needed for the project.
- Property owners will be given an opportunity to consider the offer and negotiate.

Traffic Operating Conditions

- Capacity analysis conducted using industry standard Synchro software to determine impacts on traffic operating conditions
 - Level-of-Service (LOS) is a qualitative measure describing traffic conditions using letters A – F, like a report card
 - Average delay experienced by all motorists at intersection reported in seconds
- Project is expected to increase delays in the afternoon peak hour, with minimal impacts the rest of the day
- Goal of project is to improve **safety**

	EXISTING CONDITIONS		PROPOSED CONDITIONS	
	LOS	Delay (s)	LOS	Delay (s)
AM Peak	D	41	D	41
PM Peak	E	77	F	101

Cost and Funding

- Construction cost is approximately \$700,000
- Funding:
 - 90% - Local Road Accident Reduction Program (LRARP) administered by CTDOT
 - 10% - City of Hartford

Schedule

- Design Phase completion: March 2022
- Advertising for construction bids: April 2022
- Construction: Fall 2022 – Summer 2023



Questions/Comments

- Write comment/question in chat box
- Comment after conclusion of the meeting
 - The 2-week comment period will end on November 18, 2021
- Please write to Frank Dellaripa, PE, City Engineer:
 - Frank.Dellaripa@hartford.gov
- Presentation available on City website at:
<https://www.hartfordct.gov/Government/Departments/Public-Works>